

What is claimed is:

1. A portable ice rink surface building and resurfacing device, comprising:
 - a chassis;
 - a water tank mounted on said chassis;
 - 5 a heating mechanism mounted in heat exchange relation to the water tank;
 - the water tank being adapted to receive snow to be melted; and
 - a fluid disperser connected to said tank for distributing a layer of water onto an ice rink surface.
- 10 2. The device according to claim 1 wherein the fluid disperser further comprises a controller for regulating an amount of water being dispersed.
3. The device according to claim 1 wherein the chassis comprises a long flat-plate curved up at a forward end to provide a toboggan-like shape to enable skidding of the device over a snow covered surface.
- 15 4. The device according to claim 1 wherein the heating mechanism is a heating chamber within the water tank.
5. The device according to claim 1 wherein the heating mechanism further comprises a first longitudinal member at the bottom of the water tank, said first elongated member being below a water line when in use; a vertical elongated member extending from said first elongated member; a second elongated member extending from said vertical elongated member, said second elongated member being parallel to the first elongated member and above the water line; said second elongated member having a plurality of perforation for releasing flue gas.
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6. The device according to claim 5, wherein heat of the flue gas contacts the snow received in the water tank and contributes to the melting of the snow.
- 5 7. The device according to claim 1 wherein a hopper is used to receive snow.
8. The device according to claim 7 wherein there is a filtering device between the hopper and the water tank for removing large solids.
9. The invention according to claim 1 wherein there is a filtering device between the water tank and fluid dispersing means for removing solids.
- 10 10. The device according to claim 1 wherein the fluid disperser further comprising a fluid dispensing bar, said fluid dispensing bar having plurality of holes for distributing thin layer of water on horizontal surfaces.
11. The device according to claim 1 wherein the fluid disperser further comprising a fluid dispensing bar, said fluid dispensing bar having a telescopic structure.
- 15 12. The device according to claim 1 wherein the fluid dispenser is a removable bar.
13. The device according to claim 1 wherein the bottom of the chassis is located at a height lower than axles of wheels.
- 20 14. A method of building an ice surface for a rink or resurfacing a rink comprising the steps of:
- i) receiving snow in a portable rink building device; said device comprising:
- 25 a chassis;
- a water tank mounted on said chassis;

a heating mechanism mounted in heat exchange relation to the water tank;

the water tank being adapted to receive snow to be melted; and

5 a fluid dispersing means connected to said tank for distributing a layer of water onto an ice rink surface;

ii) melting the snow in said device; and

iii) dispersing the water from melted snow onto the ice surface.

15. The method according to claim 14 wherein the rink is an outdoor rink.

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